

Message Text

CONFIDENTIAL

PAGE 01 SEOUL 05474 260843Z
ACTION OES-07

INFO OCT-01 EA-10 ISO-00 NRC-05 SOE-02 AID-05 CEA-01
CIAE-00 COME-00 DODE-00 EB-08 H-01 INR-10 INT-05
L-03 NSAE-00 NSC-05 OMB-01 PM-05 ICA-11 SP-02
SS-15 STR-07 TRSE-00 ACDA-12 PA-01 /117 W
-----042995 260858Z /10

P R 260740Z JUN 78
FM AMEMBASSY SEOUL
TO SECSTATE WASHDC PRIORITY 1878
DOE WASHDC PRIORITY
DOE GERMANTOWN PRIORITY
INFO AMEMBASSY TOKYO

C O N F I D E N T I A L SEOUL 5474

DPET FOR OES/NET - R. LIIMATAINEN

DOE FOR WASHDC FOR R. WILLIT

DEPT PASS NRC J. LAFLEUR

E.O. 11652: GDS
TAGS: ENRG, TECH, KS
SUBJECT: KO-RI 1 OPERATION, APRIL 25 - JUNE 25

REF: SEOUL 2905

1. SUMMARY: THE KOREA ELECTRIC CO KO-RI 1 NUCLEAR POWER PLANT HAS BEEN DERATED FROM 595 MWE TO 587 MWE GENERATING CAPACITY BECAUSE THE LATTER VALUE IS THE MAXIMUM AVERAGE POWER OUTPUT ATTAINABLE WITH ONLY TWO OF THE THREE MAIN FEEDWATER PUMPS IN OPERATION -- THE NORMAL MODE OF OPERATION BECAUSE THE THIRD PUMP IS ON-LINE SPARE. DURING STARTUP TESTING PLANT OUTPUT REACHED 594.5 MWE WITH ALL THREE FEEDWATER PUMPS IN OPERATION. THE FOLLOWING IS A RESUME OF PLANT OPERATION FOR THE PERIOD APRIL 25 - JUNE 25.

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2. PLANT WAS SYNCHRONIZED WITH GRID AT 0829 HOURS 25 APRIL FOLLOWING REFTTEL SHUTDOWN TO CLEAN-UP SULFATE CONTAMINATION OF SECONDARY SYSTEM WATER. 500 MWE OUTPUT REACHED AT 1620 HOURS 28 APRIL.

3. AT 0613 HOURS 13 MAY PLANT SHUTDOWN (MANUAL SCRAM

WITH REACTOR IN HOT STANDBY MODE) BECAUSE OF HYDROGEN LEAKAGE FROM THE GENERATOR. AT 1860 HOURS 16 MAY PLANT RESUMED 500 MWE OUTPUT OPERATION. BECAUSE OF MAINFEED WATER SYSTEM CONTROL PROBLEMS THE PLANT WAS SHUTDOWN AT 1856 HOURS (MANUAL SCRAM) THEN RESTARTED AND SYNCHRONIZED TO GRID AT 2135 HOURS. AT 1820 HOURS 17 MAY THE REACTOR AGAIN SHUTDOWN, INSTRUMENTATION INITIATED (AUTOMATIC) SCRAM, BECAUSE OF FEEDWATER CONTROL PROBLEMS BUT WAS RESTARTED AGAIN AND THE GENERATOR SYNCHRONIZED TO THE GRID AT 2147 HOURS. THE REACTOR AGAIN SHUTDOWN (AUTOMATIC SCRAM) AT 2236 HOURS BECUASE OF TURBINE TRIP. AT 0115 HOURS 18 MAY THE PLANT WAS AGAIN CONNECTED TO GRID AND AT 1137 HOURS 19 MAY WAS OPERATING AT 500 MWE.

4. AT 2358 ON MAY 29 REACTOR SCRAMMED (MANUAL) FOR REPAIR OF LEAKING FALNGE ON STEAM LINE TO TURBINE SHAFT SEAL; AT 1302 HOURS 30 MAY PLANT WAS ON-GRID AND AGAIN GENERATING 500 MEW AT 0452 HOURS ON 31 MAY.

5. AT 1336 HOURS 31 MAY REACTOR SCARMMED (AUTOMATIC) DUE TO ELECTRICAL SHORT IN AUXILIARY TRANSFORMER WHICH WAS CAUSED BY A SHORT IN MOTOR WINDINGS OF ONE OF THE THREE MAIN FEEDWATER PUMPS. AT 1808 HOURS PLANT WAS AGAIN ON GRID AND AT 0700 HOURS 1 JUNE WAS AGAIN GENERATING 500 MWE (WITH TWO MAIN FEEDWATER PUMPS OPERATING, ONE MAIN FEEDWATER PUMP INOPERABLE).
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6. AT 2310 HOURS 2 JUNE, POWER OUTPUT REDUCED TO 450 MWE BECAUSE OF SAFETY CONSIDERATIONS (THIRD MAIN FEEDWATER PUMP BEING INOPERABLE SHOULD EMERGENCY ARISE). AT 1140 HOURS 3 JUNE PLANT BEGAN TO REDUCE POWER OUTPUT AT LOAD DISPATCHER REQUEST AND AT 1325 HOURS 4 JUNE OUTPUT LEVELED OFF AT 350 MWE. AT 1150 HOURS 5 JUNE POWER WAS INCREASED TO 400 MWE AT LOAD DISPATCHER REQUEST.

7. AT 1841 HOURS 8 JUNE REACTOR SCRAMMED (AUTOMATIC) BECUASE OF OVERLOAD RELAY MALFUNCTION ON DC/AC INVERTER. PLANT RETURNED TO GRID 0756 HOURS 9 JUNE AND BEGAN POWER OUTPUT OPERATION FOLLOWING GRID DEMAND BETWEEN 300 MWE AND 400 MWE.

8. AT 0550 HOURS 20 JUNE REACTOR SCRAMMED (AUTOMATIC) BECAUSE OF PROBLEM WITH MAIN FEEDWATER PUMP WATER SEAL GLAND. AT 1455 HOURS PLANT RETURNED TO GRID. AT 0720 HOURS 21 JUNE POWER OUTPUT REACHED 400 MWE.

9. AT 1240 HOURS 22 JUNE PLANT SHUTDOWN (MANUAL) BECAUSE OF STEAM LEAK IN EXPANSION JOINT BETWEEN NO. 2

LOW PRESSURE TURBINE AND DEAERATOR. INSTALLATION OF A NEW
EXPANSION JOINT WAS IN PROGRESS AT 1040 HOURS 26 JUNE.
STERN

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Message Attributes

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Disposition Approved on Date:
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